U.S. Department of Energy
Office of River Protection
Mr. R. J. Schepens
Manager
P.O. Box 450, MSIN H6-60
Richland, Washington 99352

Dear Mr. Schepens:

CONTRACT NO. DE-AC27-01RV14136 – TRANSMITTAL FOR INFORMATION – AUTHORIZATION BASIS CHANGE NOTICE 24590-WTP-ABCN-ENS-02-016, REVISION 0, REAGENT SUPPLY SYSTEM DESIGN UPDATE

Bechtel National, Inc. (BNI) is submitting Authorization Basis Change Notice (ABCN) 24590-WTP-ABCN-ENS-02-016, Revision 0, to the U.S. Department of Energy, Office of River Protection and the Office of Safety Regulation (SSR) for information. This contractor-approved ABCN incorporates the move of the reagent room from the -21'-0" elevation and removing the stainless steel liner from the bermed area and remacing it with an chemical resistant epoxy paint.

An electronic copy of ABCN 24590-WTP-ABCN-ESH-02-016, Revision 0, is provided for the OSR's information and use.

Please contact Mr. Bill Spezialetti at (509) 371-2778 for any questions or comments.

Very truly yours,

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R. F. Naventi
Project Director

TR/slr

Attachment: Authorization Basis Change Notice 24590-WTP-ABCN-ENS-02-016, Revision 0



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ABCN N	umber 24590-WTP-ABCN-E	NS-02-016	Revision 0	<u>-</u>
ABCN Ti	Reagent Supply System	m Design Update		
I. AI	BCN Review and Approva	l Signatures		
	BCN Preparation	Ü		
Preparer:	Thomas Galioto			
•	Print/Type Name	Signature	Date	-
Reviewer:	Jeff Provo			
	Print/Type Name	Signature	Date	-
B. <u>Re</u>	quired Technical Reviewers			
Review Required?	For each person checked, th	nat signature block mus	t be completed.	
\boxtimes	E&NS Manager	Fred Beranek		
	C	Print/Type Name	Signature	Date
\boxtimes	QA Manager	George Shell		
		Print/Type Name	Signature	Date
	Operations Manager			
		Print/Type Name	Signature	Date
	Commissioning/Training Manager			
		Print/Type Name	Signature	Date
×	Manager of Engineering	Fred Marsh		
		Print/Type Name	Signature	Date
	Construction Manager			
 '	C	Print/Type Name	Signature	Date
\boxtimes	Area Project Manager	Phil Schuetz		
		Print/Type Name	Signature	Date
П	Research & Technology Manager			
		Print/Type Name	Signature	Date
	PMT Chair			
	THII Chair	Print/Type Name	Signature	Date
×	Other Affected Organization	Dwight Krahn		
	Outer / meeted Organization	Print/Type Name	Signature	Date
C. AE	BCN Approval			
PSC Chair	Print/Type Name	Signature	Date	-
W/TD D		S.G. William C	Duic	
WTP Projec	Print/Type Name	Signature	Date	-
		~~~~~~	Duic	



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ABCN Number	24590-WTP-ABCN-ENS-02-016	Revision	0	
ABCN Title	Reagent Supply System Design Update			

### II. Description of the Proposed Change to the Authorization Basis

D. Affected Authorization Basis and Implementing Documents (drawings, procedures, plans, etc):

Title	Document Number	Revision
HLW Vitrification Building General Arrangement Plan at EL. –21'-0"	24590-HLW-P1-P01T-00001	1
HLW Vitrification Building General Arrangement Plan at EL. 11'-0"	24590-HLW-P1-P01T-00003	0
HLW Vitrification Building General Arrangement Section G-G and H-H	24590-HLW-P1-P01T-00010	4
Process Flow Diagram HLW Vitrification Reagents (System NAR, SHR, AMR, and DIW)	24590-HLW-M5-V17T -00008	3
P&ID-HLW Sodium Hydroxide Reagent System Sodium Hydroxide Supply	24590-HLW-M6-SHR-00001	С
P&ID-HLW Demineralized Water System Demineralized Water Distribution	24590-HLW-M6-DIW-00001	С
P&ID-HLW Nitric Acid System Nitric Acid Supply	24590-HLW-M6-NAR-00001	0
Preliminary Safety Analysis Report To Support Partial Construction: HLW Facility Specific Information	24590-WTP-PSAR-ESH-01-001-04	0
Preliminary Safety Analysis Report To Support Construction: HLW Facility Specific Information	24590-WTP-PSAR-ESH-01-002-04	0

E. Describe the proposed changes to the Authorization Basis documents. Include specific references to the AB documents and design documents that are to be changed:

Section 2.4.11.14 of documents 24590-WTP-PSAR-ESH-01-001-04 and 24590-WTP-PSAR-ESH-01-002-04 currently describes the reagent tank room (H-B052) at the -21 ft elevation, this room has been relocated to the 11 ft elevation directly above its old position in the SW corner of the building. The majority of the tank instrumentation listed in this section is no longer required. We currently only require a level instrument in each reagent tank. The new reagent room (H-0214) bermed area is not lined with stainless steel as stated in this section, but instead chemical resistant epoxy paint will be applied to the concrete.

**Table 3-3 of documents 24590-WTP-PSAR-ESH-01-001-04 and 24590-WTP-PSAR-ESH-01-002-04** currently list the old BNFL style tank numbers, these numbers have been updated to the BNI RPP-WTP project format. Nitric tanks T36001 and T36004 are now NAR-TK-00001 and NAR-TK-00002, respectively.

Figures 2-1 and 2-4 in 24590-WTP-PSAR-ESH-01-001-04 and figures 2A-1, 2A-3, and 2A-9 in 24590-WTP-PSAR-ESH-01-002-04 show the General Arrangement drawings and sectionals with the reagent room in the -21 ft elevation. Although these figures are marked for "illustration purposes only" they are not consistent with the design of the reagent room at the 11 ft elevation.

**Figure 2A-40 in 24590-WTP-PSAR-ESH-01-002-04** also shows an old revision of the PFD. Although this figure is also marked for "illustration purposes only" it is not consistent with the current design.

24590-SREG-F00004 Rev 3

Ref: 24590-WTP-GPP-SREG-002



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ABCN Numb	per 24590-WTP-ABCN-ENS-02-016	Revision 0
ABCN Title	Reagent Supply System Design Update	
		describes the reagent room as a C5 area that is entirely ion and will therefore be removed from this section.
F. Expla	in why the change is needed:	
Tank Room (		struction Authorization, Section 2.4.11.14, Reagent e –21 ft level. This room was moved up to the 11 ft ft the Reagents Room – Room #H-B052.
	, Conductivity, and Pressure Indication for tar	s per DCN 24590-HLW-DCN-PR-02-010, <i>Delete aks</i> . We currently only require a level instrument in each
		cal resistant paint applied to the concrete as described in imp and Liner Characterization Document (Below
By-product C		struction Authorization, Table 3-3, HLW Process and tyle tank numbers, these numbers have been updated to
III. Sumr	nary of Safety Evaluation	
	proval of this AB change is not required because I the criteria for Contractor approval of the cha	se the Safety Evaluation has determined that the change nge.
changes		eking the statements below for Administrative Control remarks, as necessary, to provide complete and
Safety Evalua	ation No. <u>24590-WTP-SE-ENS-02-028</u>	Rev <u>0</u>
For	an Administrative Control:	
desc 10 ( (e.g. Safe char	cribed in the Code of Federal Regulations applic CFR 835). The change conforms to the require and DOE/RL-96-0006). The change provides address Evaluation have been answered in a way that	equate safety because the applicable questions on the at ensures adequate safety following the change. The not result in inconsistencies with other AB or
Remarks:		



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Ref: 24590-WTP-GPP-SREG-002

ABCN	Number	24590-WTP-ABCN-ENS-02-016	Revision	0		
ABCN	Title	Reagent Supply System Design Update				
Remar	ks:					
	-	within the intent of the AB documents. All changes are co conformance of the contract requirements.	nsistent with	n top level standards and do		

H. Attachments (if any):